

DETAIL X-2

DESIGN NOTES

Dist COUNTY

ROUTE

POST MILES SHEET TOTAL TOTAL PROJECT No. SHEETS

C.J. Sims

C46471

Exp. 6-30-19 CIVIL

AASHTO LRFD Bridge Design Specifications, 2012 Edition with Caltrans Amendments, preface dated January 2014 DESIGN:

May 31, 2018

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LIMIT STATES: Service I, Strength I & I, Extreme I and Fatigue I ($\Upsilon_{FAT} = 1.0$)

DEAD LOAD: Includes 35 psf for future wearing surface

LIVE LOAD: HL93 and permit design load
Equivalent strip width method: W, = 12 ft
Slab span: L₁ = 24.5 ft (30 ft Approach Slab)
Slab span: L₁ = 7.83 ft (10 ft Approach Slab)

REINFORCED CONCRETE: $f_y = 60 \text{ ksi}$ $f'_c = 3.6 \text{ ksi}$ n = 8

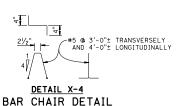
BARRIER. SEE NOTE 2 ~SEE 6 BENT P 1/4 × 6 NOTE 1 BRIDGE OR L 3 × 3 × 1/4 BB OR EB

TYPE E-2

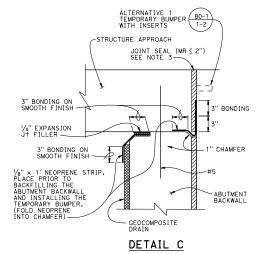
EDGE ANGLE PLAN



DETAIL A



BENT P 1/4 × 6 (Galv), SEE "EDGE ANGLE PLAN" AND NOTE A POLIRABLE SEAL PLACE 1/4 HARDBOARD -BAR ¾ × ¼ × 8" @ 12 BETWEEN SLAB AND WALL WITH SMOOTH SIDE TOWARD WALL-Use L $3 \times 3 \times \frac{1}{4}$ (Galv) for concrete barrier or curb with vertical face. DETAIL



STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURE APPROACH SLAB DETAILS

NO SCALE

- LEGEND: * Min lap splice for bottom Reinf in Freeze-Thaw Area shall be 3'-6".
- ** Threaded Rods and Dowels in Freeze-Thaw Area shall be stainless steel.

DETAIL X-1

TYPE E-1

12

STAGE 1 __STAGE 2

STAGE 1 __ STAGE 2

Min LAP

Min LAP*

DETAIL X-3

LONGITUDINAL CONSTRUCTION JOINT ALTERNATIVES

3" Typ____

3" Typ_

STAGE 1 __ STAGE 2

3" Typ_i

(n

6

3/4" Ø × 3"

COUPLING NUT,**

3/4" Ø × 8" BOLT ** —

#5 6" 1'-3" @ 12 **

INTO 6" DEEP HOLE

-1½" x 3½" CONTINUOUS RECESSED KEY, OMIT IF CONNECTING TO EXISTING

STRUCTURE APPROACH

3/4" Ø x 1'-0" @ 12 **

THREADED ROD, Galv

11/2" x 31/2

CONTINUOUS

RECESSED KEY

DRILL AND BOND

- End the plate or edge angle at beginning of barrier transition, end of wingwall or end of structure approach as applicable.
- Solid concrete barrier shown, details similar for all concrete and standard post-beam barriers.
- 3. Joint protection details shown for MR \le 2". Details similar when joint seal assembly is required.

B9-5